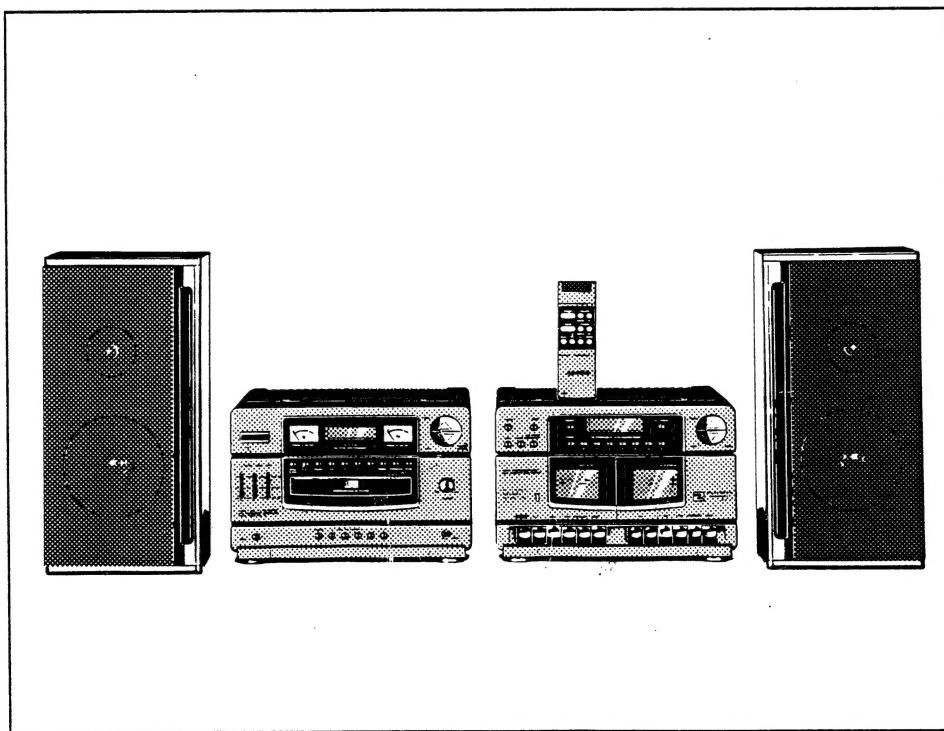


SuperTech
SOUND & VISION

SERVICE MANUAL

MODEL : PP-2280



**** GENERAL SPECIFICATIONS ****

MODEL NO.: RG-228

* POWER SOURCE	-----	AC 220V 50
* OUTPUT POWER	-----	10W/CH. THD. 1
* SPEAKER IMPEDANCE	-----	8 Ω
* POWER CONSUMPTION	-----	80W M.
* FREQUENCY RESPONSE	-----	30Hz...18K
* REMOTE CONTROL	-----	10 FUNCTIONS
* UNIT ONE ASS'Y	-----	3BAND EQ + CD + AMP. SYSTEM
* UNIT TWO ASS'Y	-----	DIGITAL TUNER FM/MW/LW DOUBLE CASSETTE PLAYER SYSTEM
* UNIT DIMENSIONS (WxHxD) mm	-----	(280x180x270)
* SPEAKER DIMENSIONS (WxHxD) mm	-----	(360x180x135)

**** RADIO SECTION SPECIFICATIONS ****

* TUNING RANGE (DIGITAL)	-----	FM. 87.5---108M MW. 522---1620K LW. 153---281 K
* INTERMEDIATE FREQUENCY	-----	FM. 10.7M AM. 450KH
* USABLE SENSITIVITY	-----	FM: 20uV AT 30db S MW: 1000uV 20db S LW: 1.58mV "
* AUDIO FIDELITY (-6db)	-----	AM: 60Hz...2.5K FM: 60Hz...14KH
* FM STEREO SEPARATION	-----	26

**** TAPE SECTION SPECIFICATIONS ****

* TAPE SPEED	-----	4.75cm/s
* WOW & FLUTTER (WTD)	-----	More than 0.3
* SIGNAL TO NOISE RATIO	-----	More than 40d
* SEPARATION	-----	More than 35d
* CROSS TALK	-----	More than 35d
* AUDIO RESPONSE	-----	60Hz.....10K

**** CD SECTION SEPCIFICATION ****

* SEPARATION	-----	More than 40d
* SIGNAL TO NOISE	-----	More than 50d
* DISTORTION	-----	Less than 2

ALIGNMENT PROCEDURES

INSTRUMENT REQUIRED

1. OUTPUT METER(VTVM)
2. IF SWEEP SIGNAL GENERATOR
3. 0-120MHz SIGNAL GENERATOR
4. FM STEREO SIGNAL GENERATOR
5. DISTORTION METER
6. OSCILLOSCOPE
7. DIGITAL DC VOLTMETER

GENERAL

1. SIGNAL INPUT MUST BE AS LOW AS POSSIBLE TO AVOID OVERLOAD AND CLIPPING. (USE HIGHEST SENSITIVITY OF OUTPUT INDICATOR)
2. VOLUME CONTROL AT STD. POSITION.
3. AM STD. MOD. IS 400Hz AT 30% (AMPLI: MO)
4. FM STD MOD. IS 1KHz AT 22.5K (FREQ. MO)
5. CONNECT 8 OHM LOAD ACROSS SP. JACK.

TUNER SECTION

SETTING

PRESS TUNER & SOURCE BUTTON. PUSH BAND BUTTON SELECTOR LW/MW/FM BAND

STEP	INSTRUMENT CONNECTION	GEN. FREQ.	RECEP FREQ.	O/P INDICATOR CONNECTION	ADJUSTMENT ADJUST FOR
------	-----------------------	------------	-------------	--------------------------	-----------------------

AM IF

1	IF SWEEP SG. TO IC 101(PIN 1)	450KHz	522KHz	IF SWEEP SCOPE C108 (-) & GND.	T101 MAX.
---	-------------------------------	--------	--------	--------------------------------	-----------

MW TUNING VOLTAGE

2	NO SIGNAL		1620K	DC VOLTMETER Q201, (C) & GND.	L102 8 V +/-0.10V
3	NO SIGNAL		522K	SAME AS STEP 2	CHECK 1.8V
4	REPEAT STEP 2 AND STEP 3 ON 2 TIMES				CHECKING

LW TUNING VOLTAGE

5	NO SIGNAL		281K	SAME AS STEP 2	L101 6.5V +/-0.1V
6	NO SIGNAL		153K	SAME AS STEP 2	CHECK 1.8V
7	REPEAT STEP 5 AND STEP 6 ON 2 TIMES				CHECKING

LW TRACKING

8	AM SIGNAL GEN. LOOP ANT (60)CM	164K	164K	SCOPE & VTVM C123,124 (-) & GND.	L103 MAX.
9	SAME AS STEP 8	272K	272K	SAME AS STEP 8	TC101, MAX.
10	REPEAT STEP 8 AND STEP 9 ON 3 TIMES				CHECKING

MW TRACKING

11	SAME AS STEP 8	603K	603K	SAME AS STEP 8	L103 MAX.
12	SAME AS STEP 8	1404K	1404K	SAME AS STEP 8	TC102, MAX.
13	REPEAT STEP 11 AND STEP 12 ON 3 TIMES				CHECKING

FM IF

14	IF SWEEP SG. TO IC001 (PIN 4)	10.7M	87.5M	SAME AS STEP 2	T001 GOOD (S) WAVE
----	----------------------------------	-------	-------	----------------	-----------------------

FM TRACKING

15	FM SIGNAL GEN. TO P001(+)002(-)	87.9M	87.9M	SAME AS STEP 8	L002 MAX.
16	SAME AS STEP 15	105.9M	105.9M	SAME AS STEP 8	TC001, MAX.
17	REPEAT STEP 16 AND STEP 17 ON 3 TIMES				CHECKING

FM TUNING VOLTAGE

18	NO SIGNAL		108M	SAME AS STEP 2	L003 6 V +/-0.05V
19	NO SIGNAL		87.5	SAME AS STEP 2	CHECK 2.1V
20	REPEAT STEP 18 AND STEP 19 ON 2 TIMES				CHECKING

TAPE SECTION

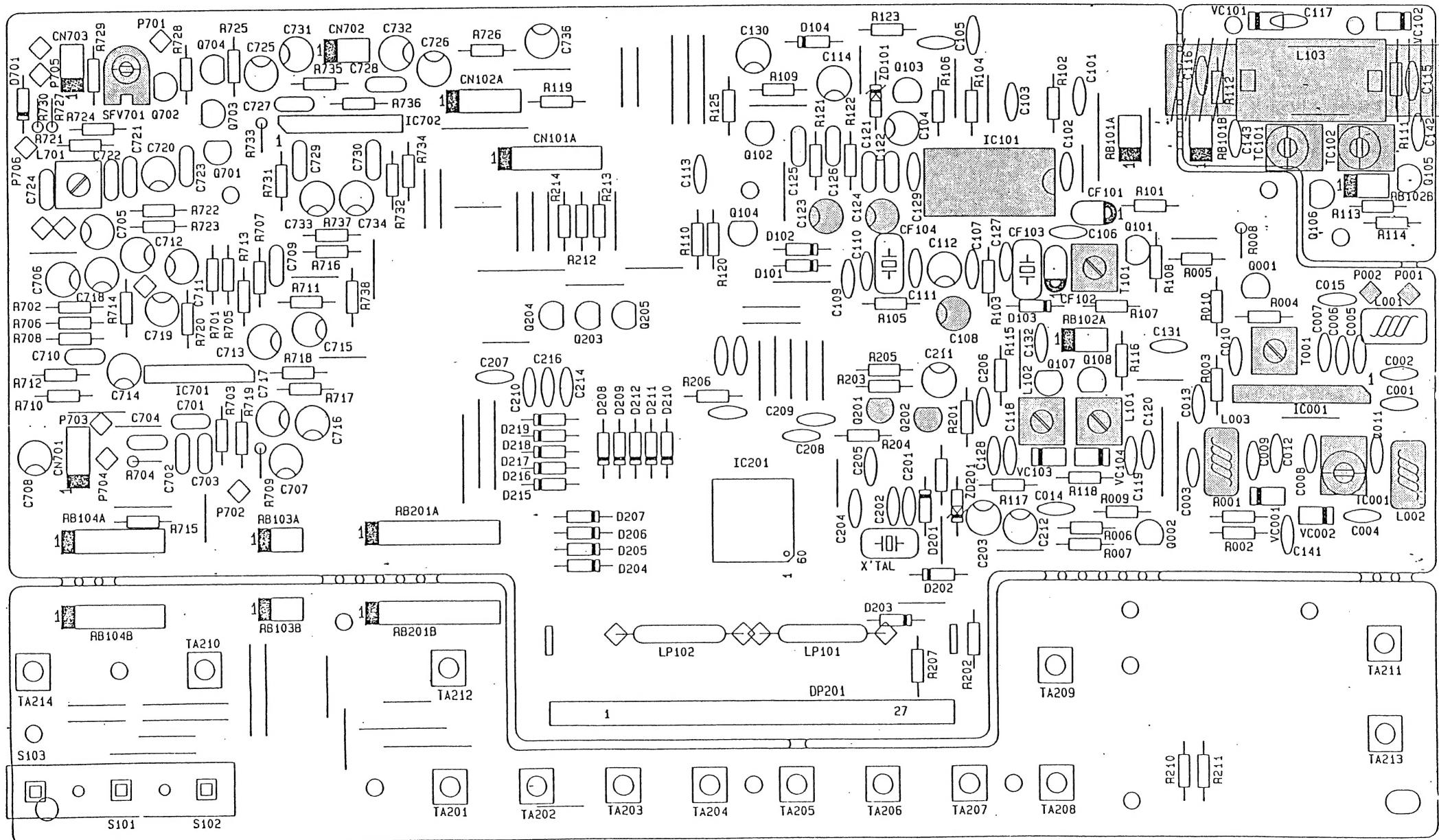
SETTING

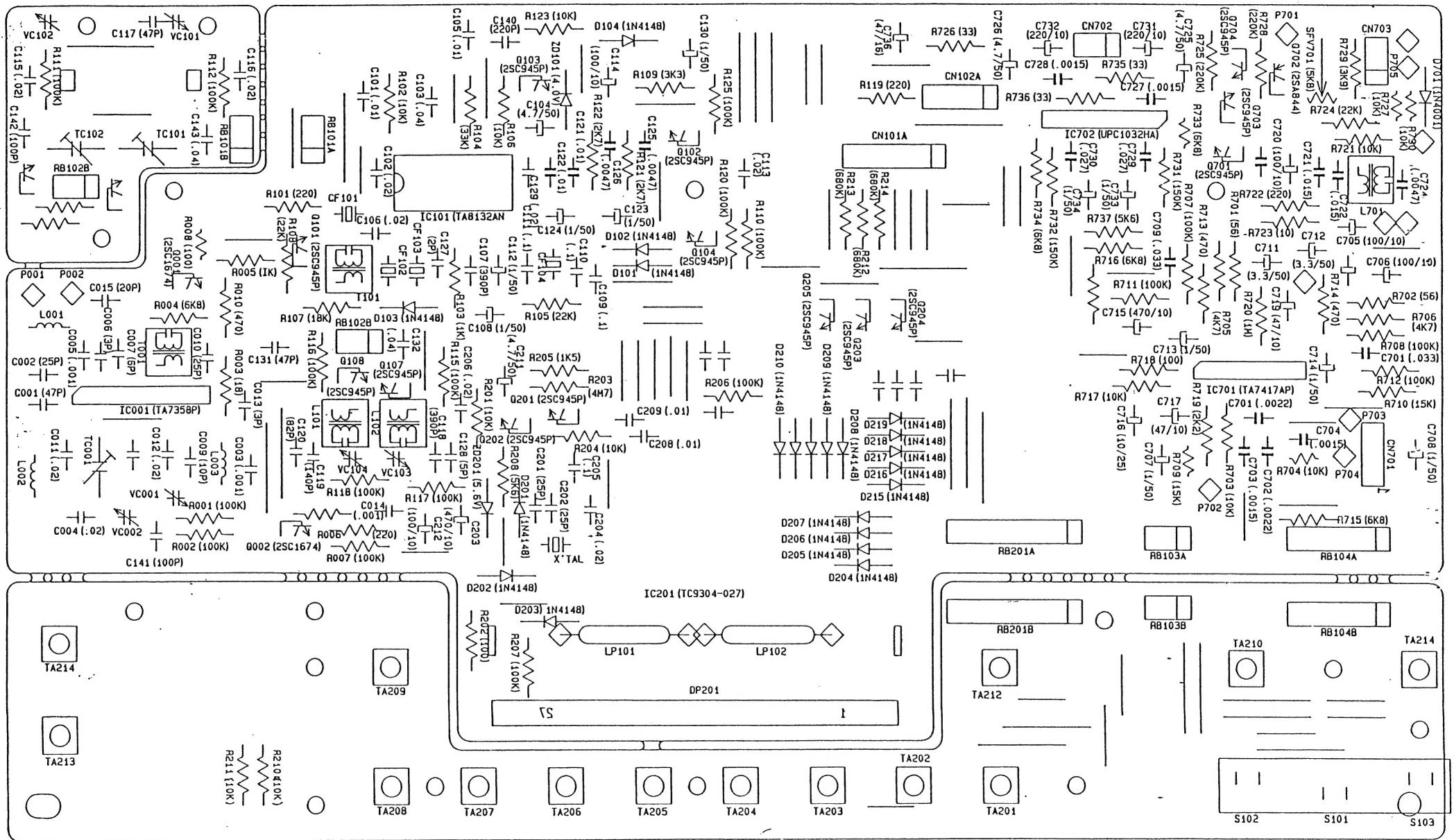
PRESS TAPE & SOURCE BUTTON AND PRESS PLAY BUTTON.....

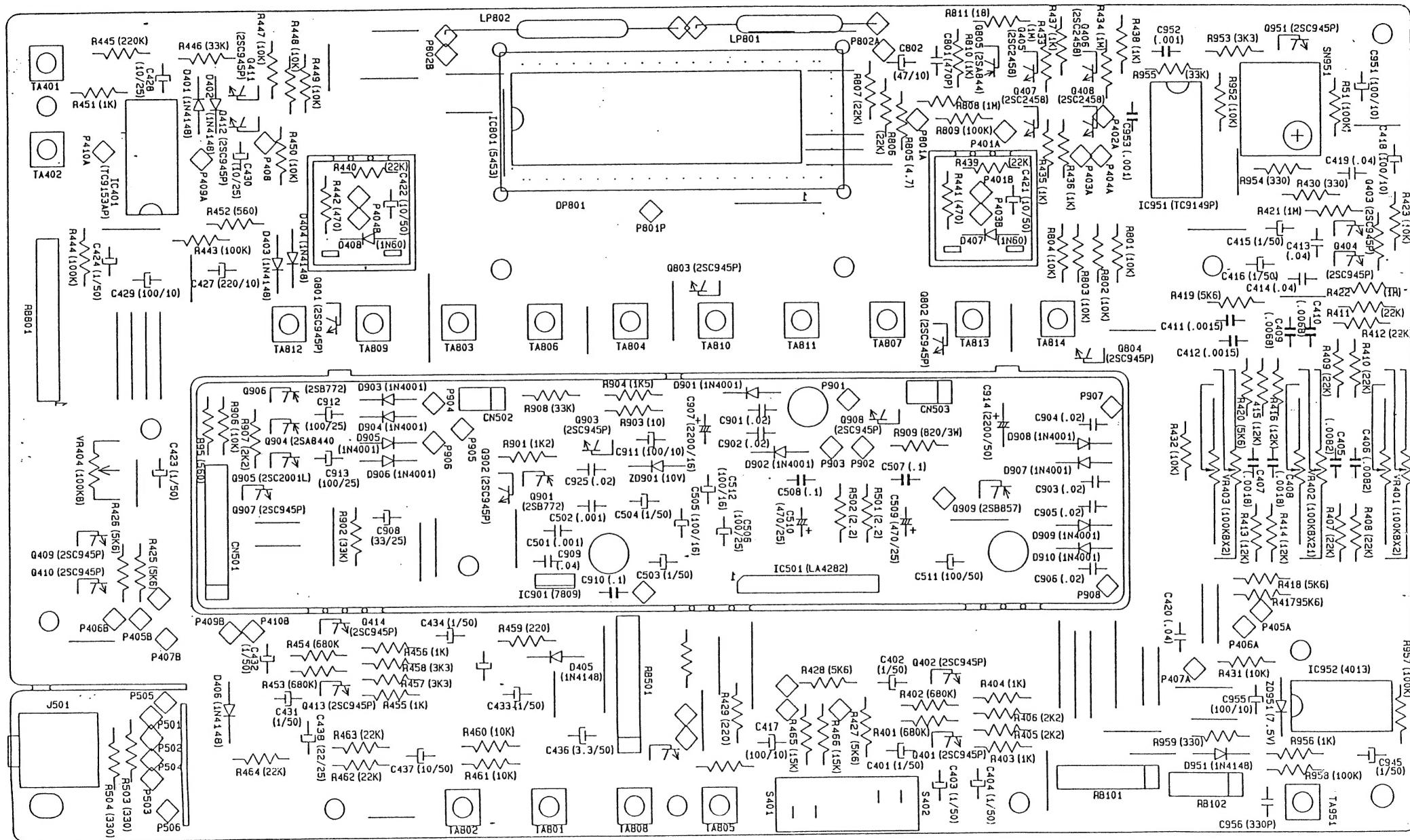
INSTRUMENT REQUIRED

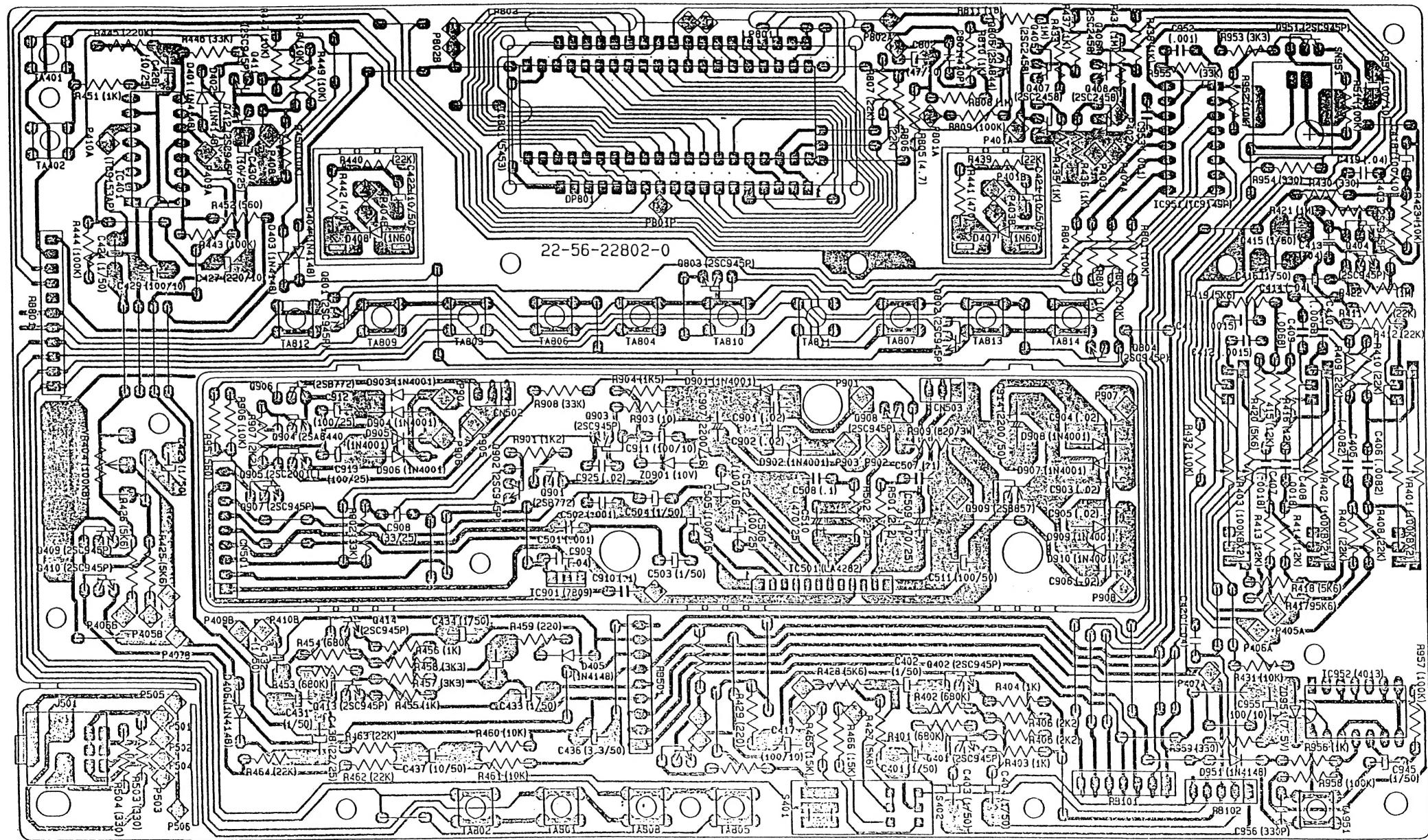
1. DUAL TRACE OSCILLOSCOPE.
2. DUAL TRACE AC MILLIVOLT METER.
3. FREQUENCY COUNTER.
4. LOUDSPEAKER 8 OHM

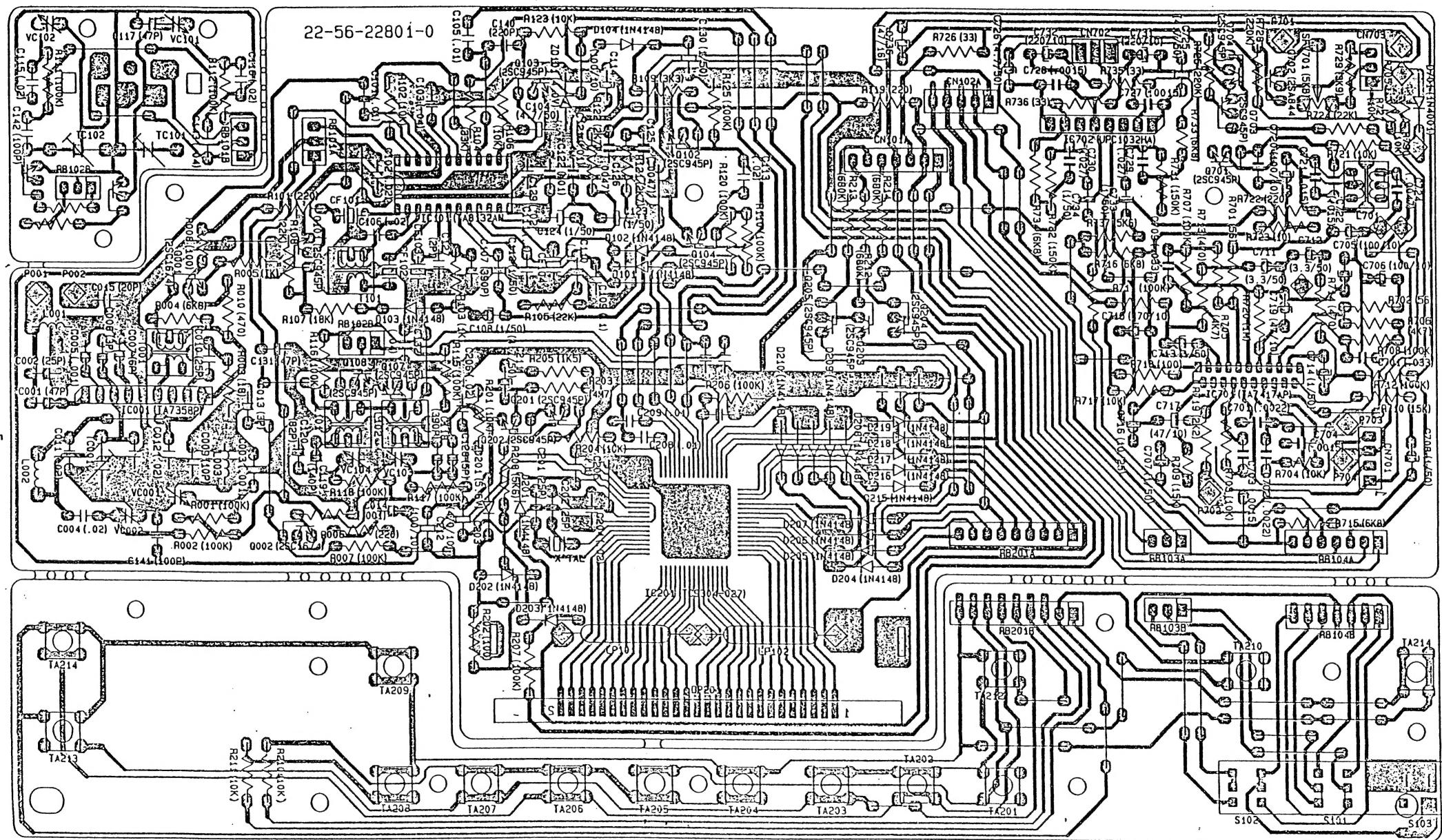
STEP	MEASURING INSTRUMENT ARRANGEMENT	TEST TAPE	ADJUSTMENT	ADJUST FOR.....
1 AZIMUTH PHASE	TAKE OUT THE SIGNAL FROM LOUDSPEAKER LOAD NOTE: GRAPHIC EQ. MUST AT CENTER POSITION.	B-113N 8 KHz	SCREW AT LEFT SIDE OF HEAD	ADJUST TO MAX. O/P. AND SYNCHRONI PHASE.
2 TAPE SPEED		B-111N 3 KHz	SFV701 SEMI-FIX 5KB	3000 +/- 3%



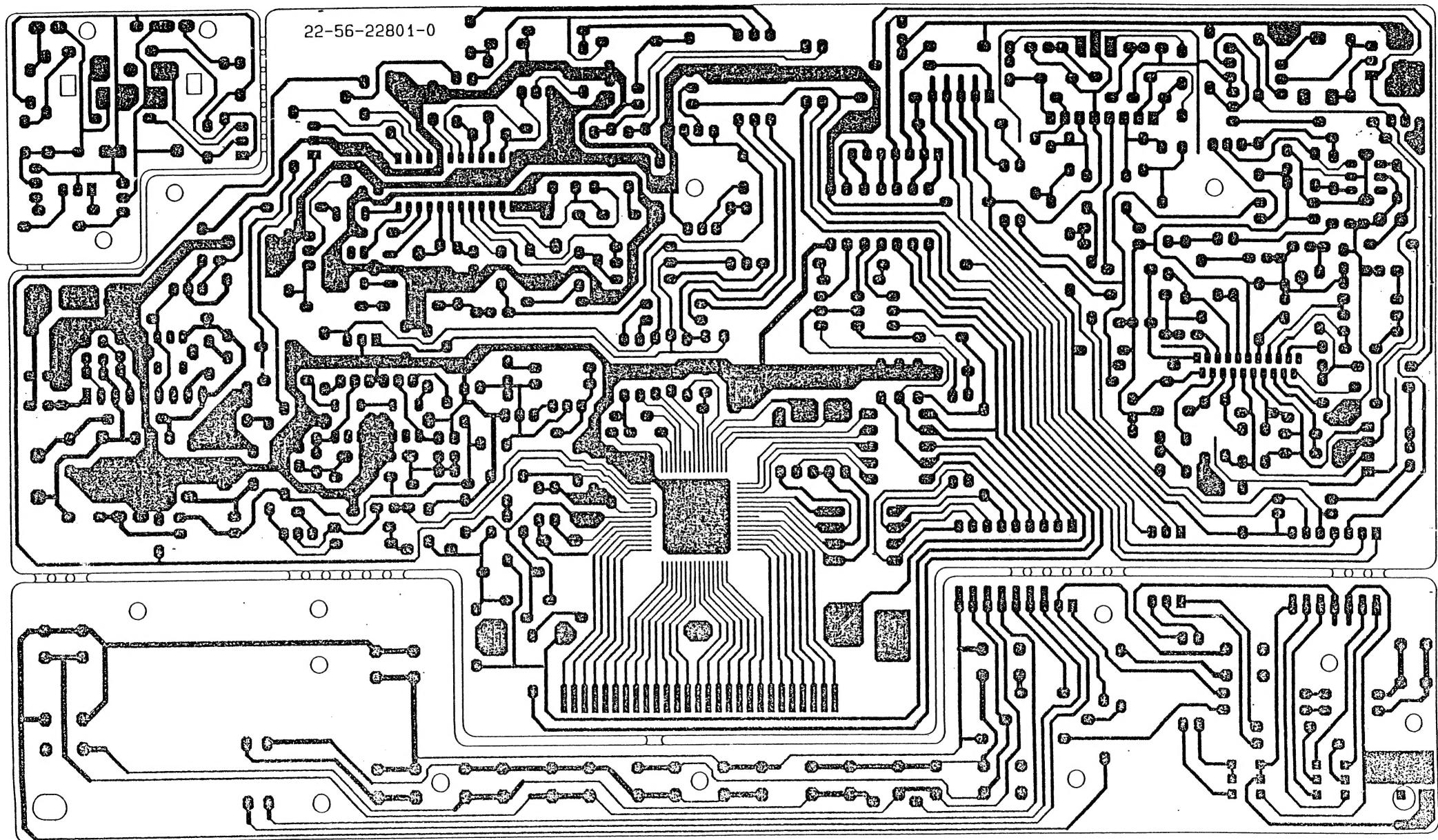


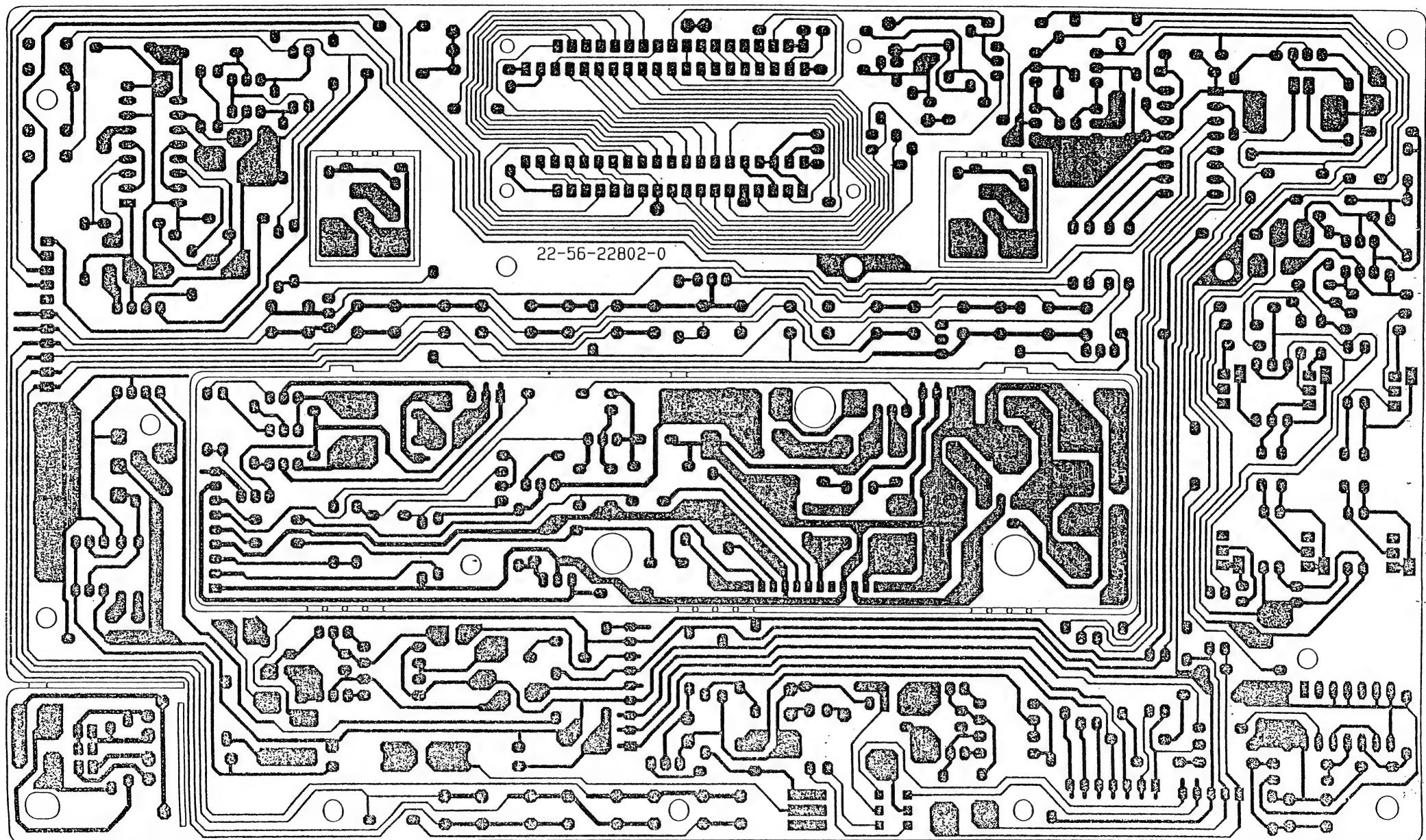


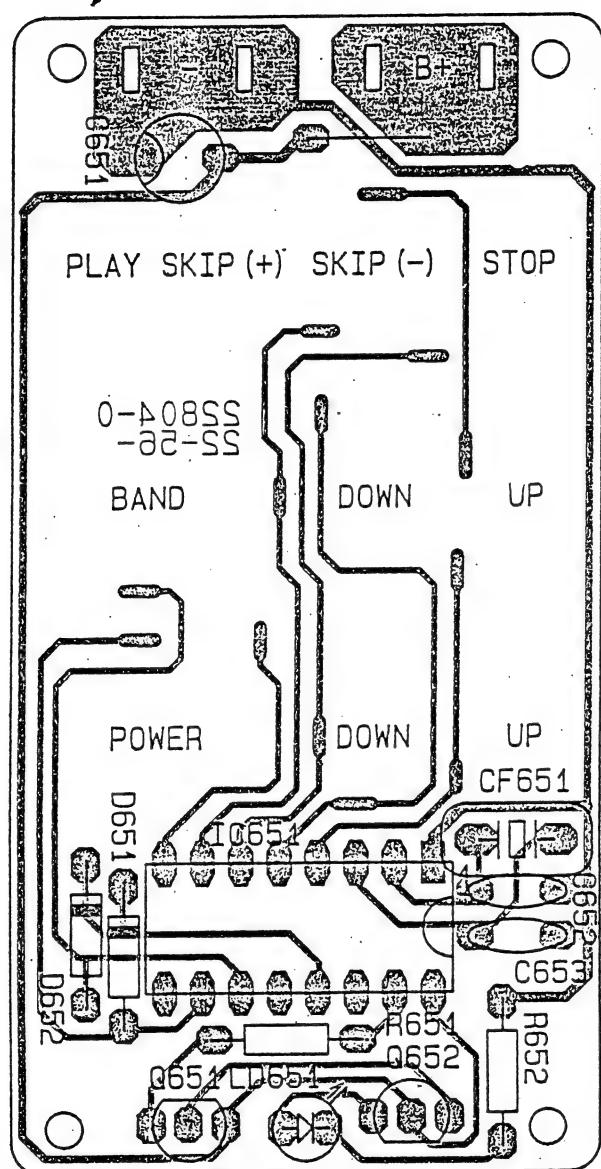




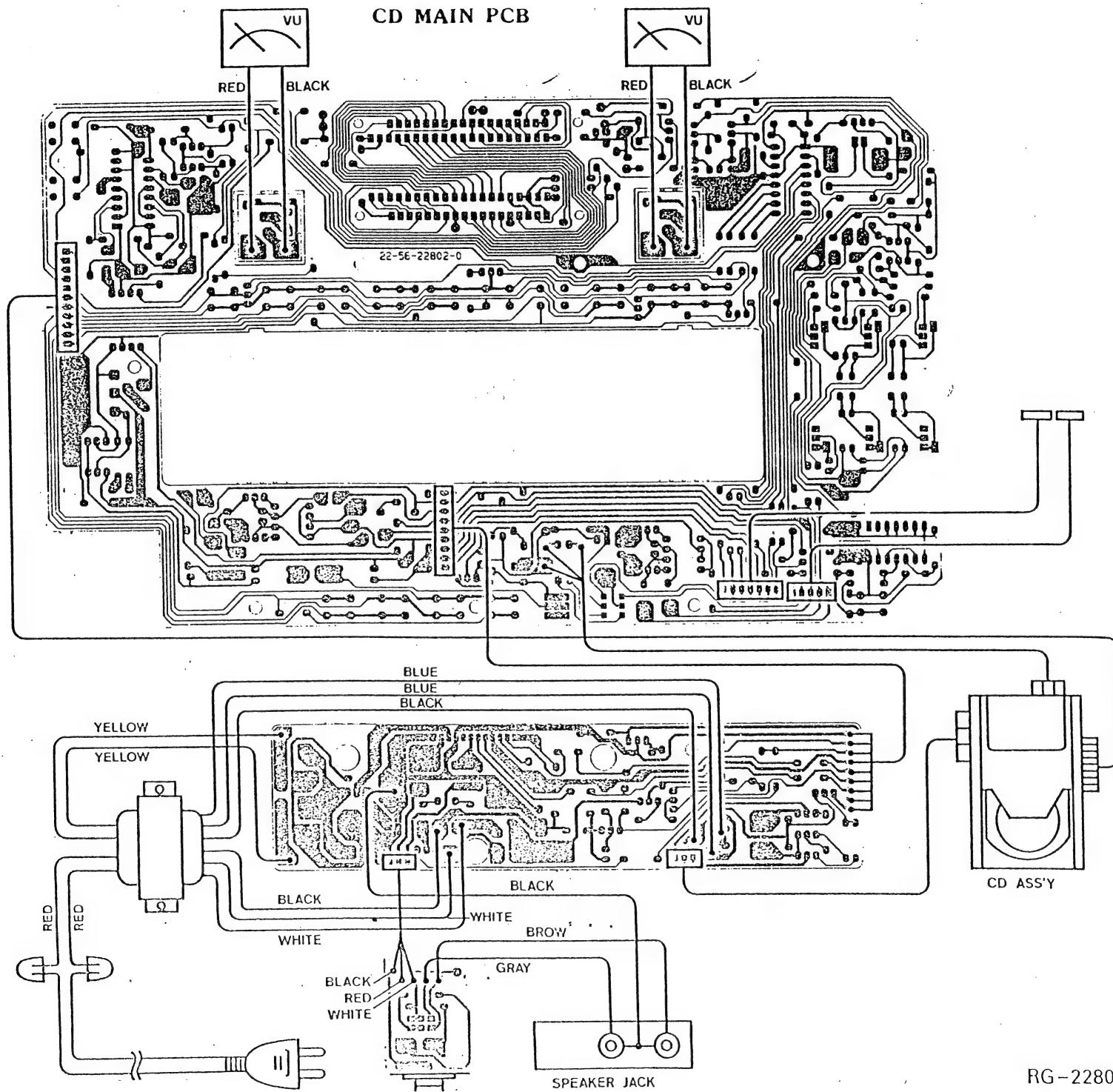
22-56-22801-0



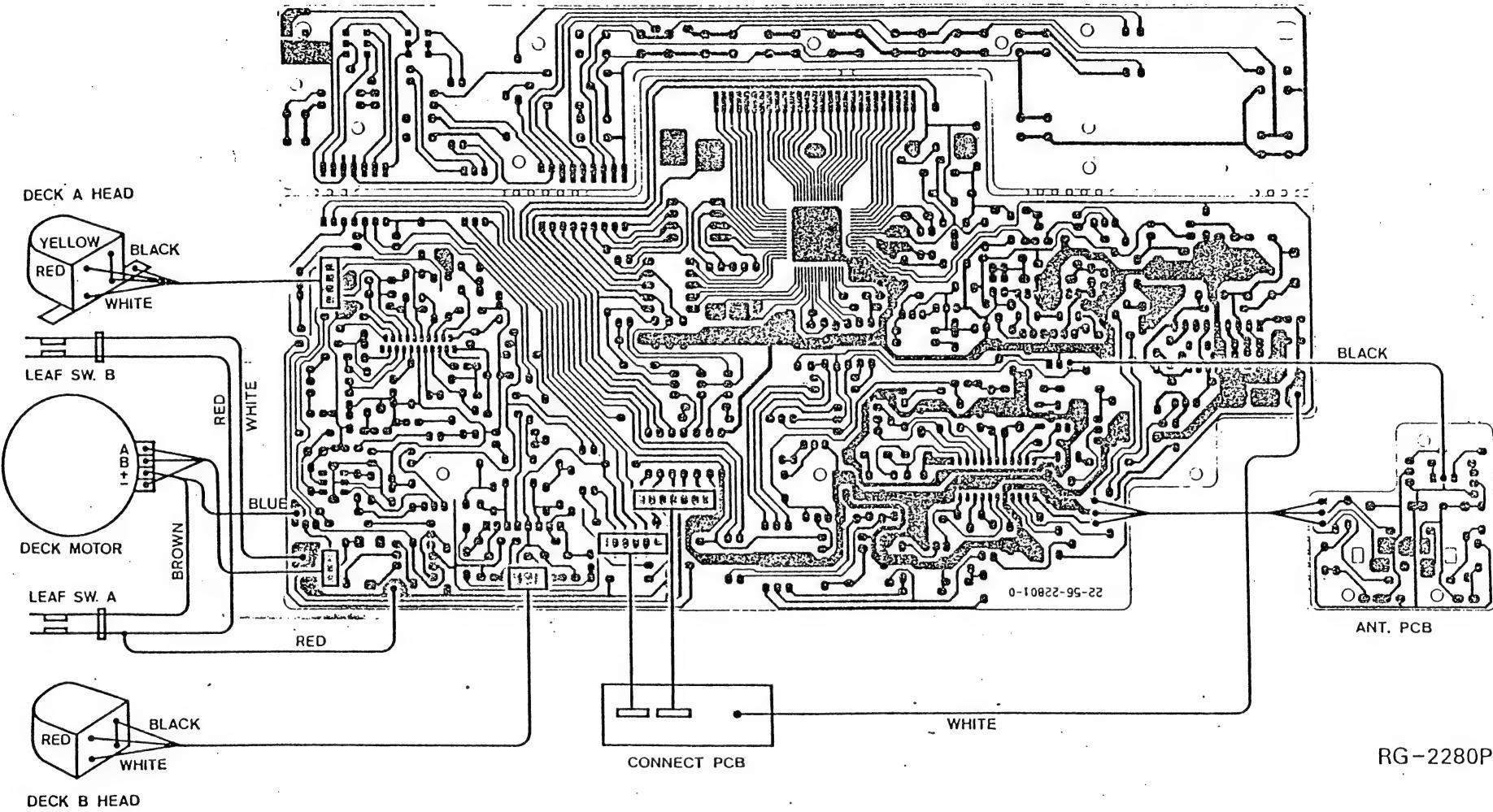


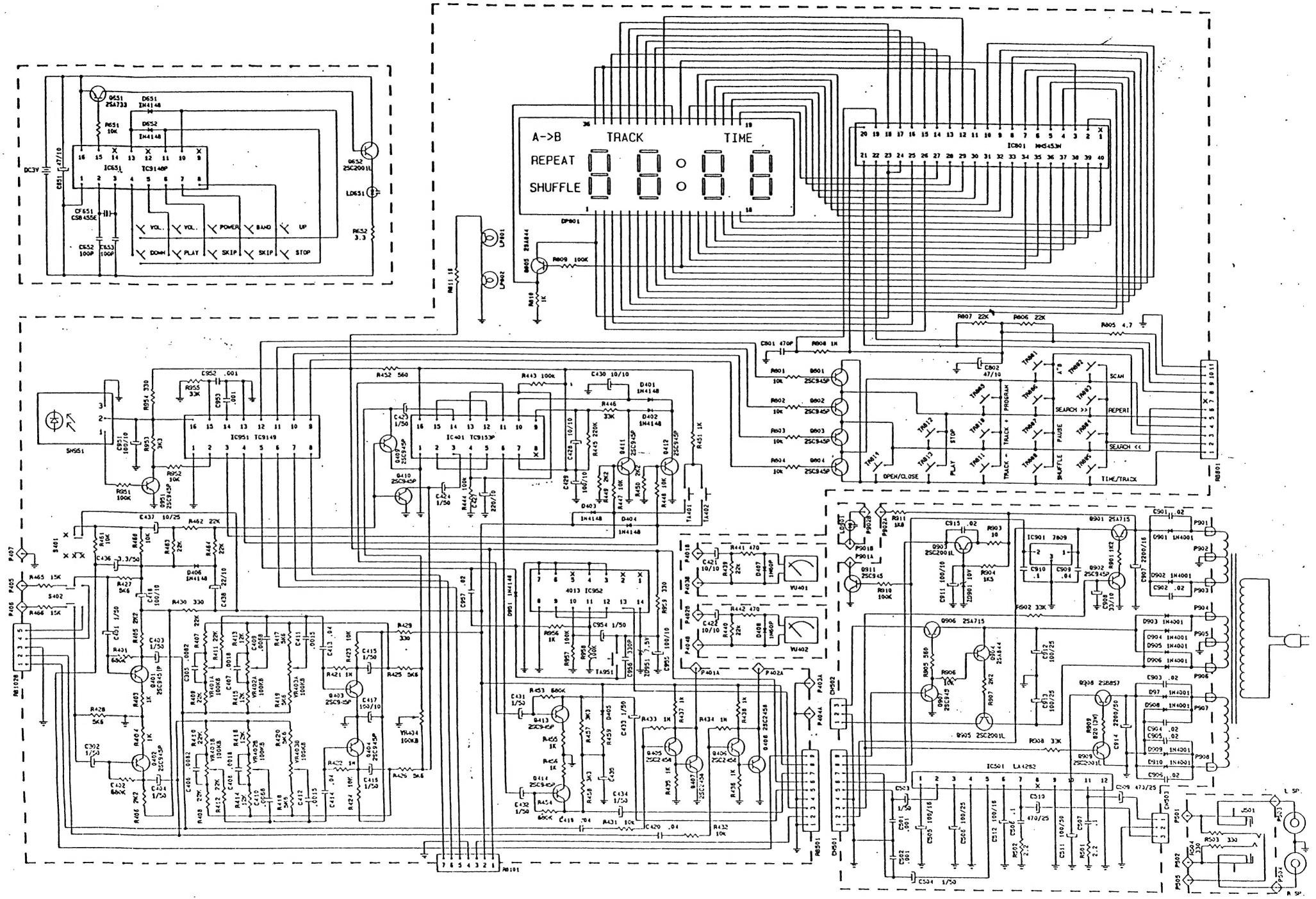


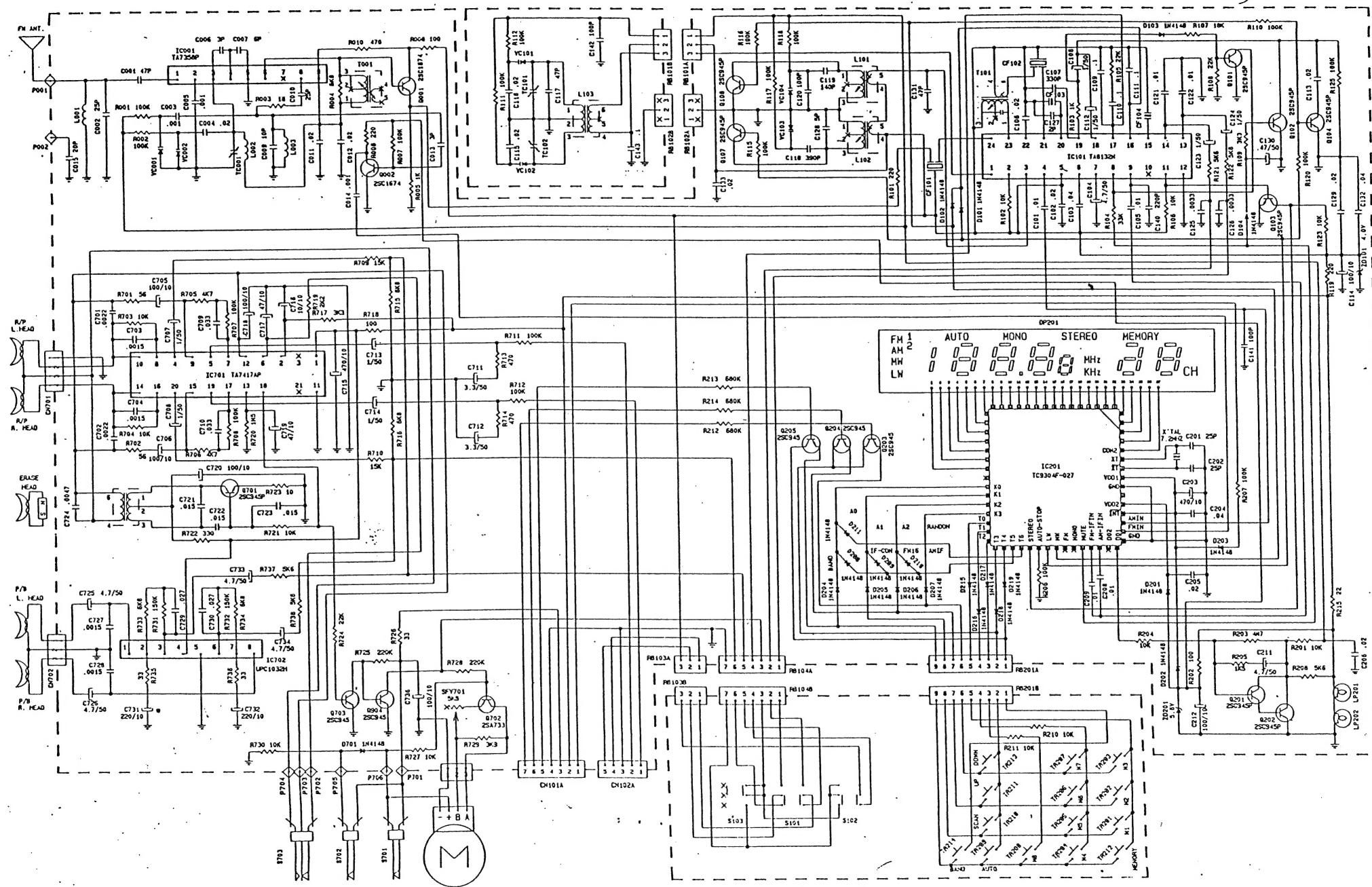
CD MAIN PCE

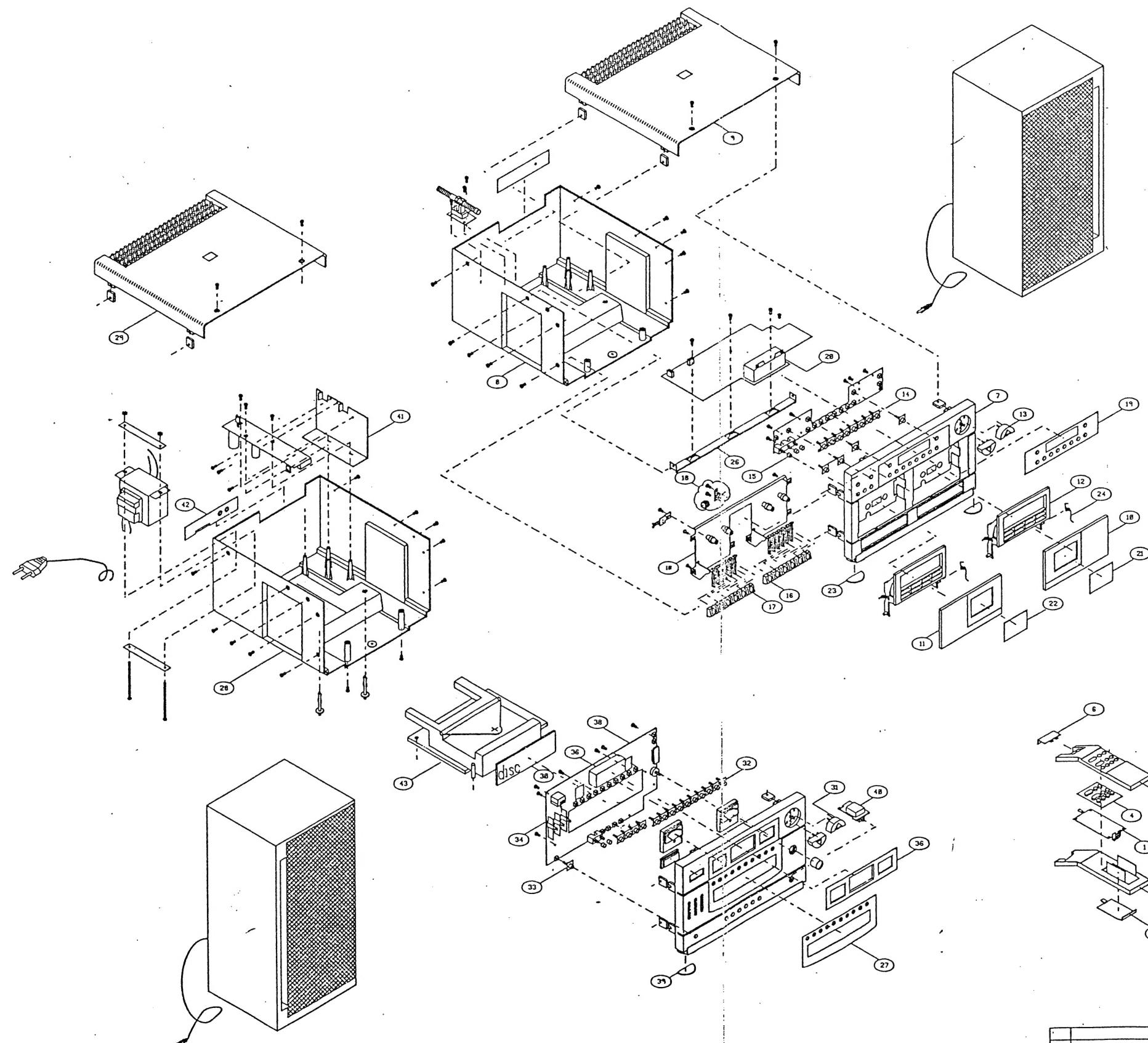


TUNER MAIN PCB









ITEM	DESCRIPTION & SPECIFICATION	PARTS NO.	UNIT	Q'TY	REMARK
1.	HAND PCB	22-56-22883-B	EA	1	
2.	HANDSET PANEL	19-16-91686-B	EA	1	
3.	HANDSET BOARD	19-16-91687-B	EA	1	
4.	HANDSET RUBBER	19-16-91688-B	EA	1	
5.	BATTERY COVER	19-16-91610-B	EA	1	
6.	HAND WINDOW	19-19-91689-B	EA	1	
7.	TUNER FRONT PANEL	19-16-22881-B	EA	1	
8.	BOTTOM BOARD	19-16-91681-B	EA	1	
9.	TOP BOARD	19-16-91682-B	EA	1	
10.	CASS DOOR PANEL A	19-16-91683-B	EA	1	
11.	CASS DOOR PANEL B	19-16-91685-B	EA	1	
12.	CASS DOOR BASE	19-16-91684-B	EA	2	
13.	VR KNOB (UP/DOWN)	19-15-91681-B	EA	2	
14.	TUNER KEY KNOB	19-15-91682-B	EA	1	
15.	PUSH KNOB	19-15-91683-B	EA	3	
16.	DECK PLAY BUTTON	19-15-91684-B	EA	1	
17.	DECK BUTTON	19-15-91685-B	EA	18	
18.	GEAR DAMPER ASS'Y	19-18-91120-B	EA	1	
19.	COLOR PLATE (TUNER)	19-19-91619-B	EA	1	
20.	TUNER WINDOW	19-19-91681-B	EA	1	
21.	CASS DOOR WINDOW A	19-19-91682-B	EA	1	
22.	CASS DOOR WINDOW B	19-19-91687-B	EA	1	
23.	RUBBER FOOT	19-22-91081-B	EA	2	
24.	EJECT SPRING	17-18-88805-B	EA	2	
25.	TUNER HOLDER	17-99-91803-B	EA	1	
26.	HAND PCB BRACKET	17-99-91084-B	EA	1	
27.	CD FRONT PANEL	19-16-22882-B	EA	1	
28.	BOTTOM BOARD	19-16-91681-B	EA	1	
29.	TOP BOARD	19-16-91682-B	EA	1	
30.	CD DOOR	19-16-91685-B	EA	1	
31.	VR KNOB	19-15-91681-B	EA	2	
32.	CD KEY KNOB 10KEYS	19-15-91686-B	EA	2	
33.	PUSH KNOB	19-15-91683-B	EA	2	
34.	BALANCE KNOB	19-15-91687-B	EA	1	
35.	CD DISPLAY WINDOW	19-19-91683-B	EA	1	
36.	CD WINDOW	19-19-91684-B	EA	1	
37.	COLOR PLATE (CD)	19-19-91685-B	EA	1	
38.	CD DISPLAY HOLDER	19-21-91681-B	EA	1	
39.	RUBBER FOOT	19-22-91081-B	EA	2	
40.	PHONE JACK BRACKET	17-99-88810-B	EA	1	
41.	HEAT SINK (BWB)	17-99-91087-B	EA	1	
42.	SPEAKER JACK BOARD	31-15-91081-B	EA	1	
43.	CD ASSY (HKG-311)	35-71-91085-B	EA	1	

麗晶企業股份有限公司
REGENT GROUP

2023 RELEASE UNDER E.O. 14176

EXPLODE VIEW OF RG-2280

				CERTIFIED FOR CONSTRUCTION			BY _____	DWG.	DSGN.	CHG.	APPL.
				DATE _____	BY _____	DATE _____					
REV.	DESCRIPTION		BY	CHG.	APPL.	DATE	PROJ. NO.	DWD. NO.		REV.	

